

ABSTRACT OF THE DISCLOSURE

In a communication system for a mobile node according to IPv6, a virtual network prefix is configured as a prefix specific to a mobile node in a domain having a plurality of subnetworks. In the domain, a packet is sent to the mobile node by host-based routing on an IPv6 address formed of the virtual network prefix and an interface ID. The communications process with the mobile node which cannot identify a virtual network prefix is performed using a physical network prefix according to IPv6. Accordingly, nodes which can and cannot identify a virtual network prefix can coexist in the domain.